

## ABSTRACT

5      **ACOUSTIC SENSORS USING MICROSTRUCTURES TUNABLE WITH  
ENERGY OTHER THAN ACOUSTIC ENERGY**

10      A sensor for detecting acoustic energy includes a microstructure tuned to a  
predetermined acoustic frequency and a device for detecting movement of the  
microstructure. A display device is operatively linked to the movement detecting  
device. When acoustic energy strikes the acoustic sensor, acoustic energy having a  
predetermined frequency moves the microstructure, where the movement is detected  
by the movement detecting device.